

1961

DEPARTMENT OF THE NAVY

East Union, City Race, Factory Race and Tanner Ditch in cfs, East Union Canal -
1.5'x3' Suppressed Weir, City Race - 1'x3' Sup. Weir, Factory Race + 1'x12' Sup. Weir,
Tanner Ditch - Tanner Race through 8' rectangular Weir less Dry Creek diversion
approximately through a 3' wide funnel-like flume.

Apr.	Eest	Factory	City	Tanner		Total	Prov.	Corrina	Dry	Crash		
				Flow	Rate							
Max	cfs	cfs	cfs	Rate	cfs	cfs	cfs	cfs	cfs	cfs		
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21	.40	7.1	.31	7.4	.10	1.0	1.2	16.2	.35	4.1	.40	2.9
22	.50	10.0	.31	7.4	.13	1.5	1.5	20.4	.50	6.9	.60	5.4
23	.50	10.0	.31	7.4	.13	1.5	4.7	23.6	.65	10.2	.62	5.5
24	.50	10.0	.34	8.6	.13	1.5	3.0	23.1	.60	9.1	.65	6.1
25	.50	10.0	.34	8.6	.13	1.5	3.0	23.1	.60	9.1	.65	6.1
26	.50	10.0	.35	9.0	.13	1.5	2.0	22.5	.52	7.4	.60	5.4
27		10.0		9.0	.10	1.0	2.0	22.0	.52	7.4	.60	5.4
28	.20	2.6	.12	1.9	.13	1.5	2.0	8.0	.52	7.4	.60	5.4
29	.20	2.6	.12	1.9	.25	3.5	1.0	9.0	.30	3.3	.35	2.3
30	.32	5.2	.12	1.9	.16	2.0	1.0	-11.1	.30	3.3	.35	2.3
31												
Mean												
cfs												
Total				6.3				17.9			4.7	

PLANO GATE IRIGATION METER MAY, 1961

East Union, City Weir, Factory Race and Tanner Ditch in cfs, East Union Canal -
 1.5'x8' Suppressed Weir, City Weir = 1'x8' Sup. Weir, Factory Race = 1'x12' Sup. Weir,
 Tanner Ditch = Tanner Weir through 6' rectangular Weir less Dry Creek diversion
 measured upstream at 3' wide Parshall flume.

May	East Gauge Flow cfs	Factory Gauge Flow cfs		City Gauge Flow cfs		Tanner Gauge Flow cfs		Total Gauge Flow cfs		City Gauge Flow cfs		East Creek Flow cfs	
		East Gauge Flow cfs	City Gauge Flow cfs	City Gauge Flow cfs	Tanner Gauge Flow cfs	Tanner Gauge Flow cfs	Total Gauge Flow cfs	City Gauge Flow cfs	Total Gauge Flow cfs	City Gauge Flow cfs	East Creek Flow cfs	City Gauge Flow cfs	East Creek Flow cfs
1	.39	6.9	.23	4.6	.20	2.6	2.8	13.1	.40	5.0	.32	2.2	
2	.36	6.2	.23	4.8	.20	2.6	2.5	13.9	.35	4.1	.30	1.8	
3	.38	6.0	.22	4.6	.20	2.6	2.7	15.5	.34	3.9	.32	2.2	
4	.37	6.4	.23	4.8	.20	2.6	2.6	15.4	.40	5.0	.36	2.4	
5	.38	9.4		6.8		2.6	2.2	19.6	.38	4.6	.38	2.4	
6	.39	6.6	.22	4.6	.20	2.6	2.2	16.0	.32	4.6	.38	2.4	
7	?	One	?	Out	.15	1.8	2.4	11.3	1.723	13.8	.30	3.4	
8	.33	5.4	.20	4.0	.20	2.6	2.4	14.4	.34	3.9	.26	1.5	
9	.36	6.2	.20	4.0	.20	2.6	2.0	14.3	.32	3.6	.27	1.6	
10	.27	4.0	.22	4.6	.15	1.8	2.4	12.8	.36	4.2	.30	1.8	
11	.43	7.0	.20	4.0	.15	1.8	2.0	15.7	.34	3.9	.31	1.9	
12	.40	7.1	.18	3.4	.16	2.0	2.3	13.3	.30	3.3	.37	2.5	
13	.40	9.4	.18	3.4	.15	2.0	2.4	16.2	.32	3.6	.34	2.2	
14	.34	5.6	.17	3.1	.15	2.0	4.5	12.0	.45	5.9	.38	1.6	
15	.40	9.4	.17	3.1	.20	2.6	3.5	18.6	.47	6.3	.39	2.8	
16	.46	9.4	.18	3.8	.15	1.8	3.0	17.0	.45	5.9	.40	2.9	
17	.50	10.0	.15	2.5	.15	1.8	3.2	17.5	.47	6.3	.42	3.1	
18	.48	9.4	.20	4.0	.18	2.3	4.3	20.0	.53	7.5	.43	3.2	
19	.48	9.4	.17	3.1	.18	2.3	5.3	20.1	.57	8.4	.62	3.1	
20	.46	8.2	.20	4.0	.18	2.3	5.5	13.0	.51	7.3	.46	3.6	
21	.35	5.9	.15	2.8	.15	2.3	4.6	15.6	.53	7.5	.40	2.9	
22	.35	5.9	.15	2.5	.18	2.3	5.0	15.6	.52	7.3	.34	2.3	
23	.36	6.2	.18	3.4	.18	2.3	3.9	15.8	.46	6.1	.33	2.2	
24	.41	7.4	.17	3.1	.20	2.6	2.9	15.9	.40	5.0	.32	2.1	
25	.41	7.4	.18	3.4	.20	2.6	3.4	16.8	.41	5.2	.30	1.8	
26	.45	8.3	.18	3.6	.20	2.6	4.9	19.5	.49	6.7	.30	1.8	
27	.49	9.6	.15	2.5	.20	2.3	4.0	18.7	.50	6.9	.40	2.9	
28	.47	9.1	.17	3.1	.20	2.6	3.1	17.9	.45	5.9	.39	2.8	
29	.49	9.6	.18	3.4	.20	2.6	3.6	19.4	.48	6.5	.40	2.9	
30	.50	10.0	.18	3.4	.20	2.6	6.3	22.3	.61	9.2	.40	2.9	
31	.60	13.1	.19	3.6	.20	2.6	7.1	26.4	.62	9.3	.36	2.4	
Total			3.7					16.82				2.4 ✓	

MONDAY JUNE EPIPHANY 1998, 1998

East Union, City Ditch, Yesteray Rose and Yonker Ditch in ofc, East Union Canal.
1.5' x 2' Suppressed Weir, City Ditch - 1' x 1' Sup. Weir, Factory Ditch - 1' x 1' Sup. Weir,
Yonker Ditch - 1' x 1' rectangular weir less Dry Creek diversion
measured through 4' rectangular weir less Dry Creek diversion

MEASUREMENTS OF THE WATER, JULY, 1951

East Union City Race, Factory Race and Tanner Ditch in cfs, East Union
 Canal - 1.5' inc' Suppressed Hair, City Race - 1' inc' Sup. Hair, Factory Race -
 1' inc' Sup. Hair, Tanner Ditch - Tanner Race through 6" rectangular Hair
 East River Canal elevation measured through a 3' wide Marshall Plaza.

Date	Factory		City		Tanner		Total		Lav.		
	July	Aug	Race	Race	Race	Ditch	Race	Race	Comb.	Canal	
Day	Gage cfs										
1	.52	10.5	.20	4.0	.20	2.0		4.0	21.8	.54	7.7
2	.52	10.6	.20	4.0	.15	1.8		4.6	21.0	.54	7.7
3	.52	10.6	.20	4.0	.18	2.3		4.6	21.5	.54	7.7
4	.50	10.0	.20	6.0	.10	1.0		4.3	19.3	.54	7.7
5	.50	10.0	.22	4.5	.14	1.7		4.3	20.6	.54	7.7
6	.52	10.6	.20	4.0	.24	1.7		4.3	21.6	.54	7.7
7	.52	10.6	.22	4.6	.10	2.0		4.3	20.6	.54	7.7
8	.52	10.6	.20	4.0	.20	2.6		5.4	22.6	.54	7.7
9	.68	9.4	.22	4.6	.12	1.4		4.0	19.4	.52	7.3
10	.48	9.4	.22	4.6	.12	1.4		4.0	19.4	.52	7.3
11	.48	9.4	.22	4.6	.12	1.4		4.0	19.4	.52	7.3
12	.48	9.4	.18	3.4	.12	1.4		3.6	17.8	.50	6.9
13	.50	10.0	.20	4.0	.12	1.4		4.0	19.4	.52	7.3
14	.46	8.8	.18	3.4	.10	1.0		4.0	17.2	.52	7.3
15	.55	11.5	.18	3.4	.17	2.1		4.0	21.0	.52	7.3
16	.60	13.1	.22	4.6	.22	3.0		4.0	24.7	.50	6.9
17	.60	13.1	.22	4.6	.17	2.1		4.6	24.4	.50	6.9
18	.56	11.8	.20	4.0	.12	1.4		4.3	21.5	.48	6.5
19	.56	11.8	.20	4.0	.12	1.4		3.0	20.2	.46	6.1
20	.54	11.2	.22	4.6	.12	1.4		5.5	21.7	.50	6.6
21	.60	13.1	.18	3.4	.12	1.4		3.2	23.1	.52	6.6
22	.60	13.1	.18	3.4	.10	1.0		5.2	22.7	.58	6.6
23	.60	13.1	.18	3.4	.20	2.6		5.7	24.6	.60	9.1
24	.54	11.2	.15	2.5	.20	2.6		5.7	21.0	.60	9.1
25	.58	12.5	.18	3.4	.15	2.0		5.2	23.1	.50	8.5
26	.54	11.2	.17	3.2	.14	1.7		4.3	20.4	.56	7.7
27	.52	10.5	.16	2.8	.14	1.7		4.3	19.4	.54	7.7
28	.54	11.2	.12	1.9	.10	1.0		4.6	16.7	.54	7.7
29	.46	8.8	.12	1.9	.12	1.6		4.2	15.3	.52	7.3
30	.56	11.3	.16	2.8	.18	2.3		5.1	22.0	.58	8.2
31	.57	12.0	.12	1.9	.20	2.5		6.0	22.5	.60	9.1
Mean											
cfs											
Total									29.54		3.20
Ac.Ft.									1293		193

PROF. G. M. MITCHELL RIVER REGULATIONS, 1961

Rest Union, City Race, Factory Race and Tanner Ditch in cfs, Rest Hudson Canal - 1.5' x 8' Suppressed Weir, City Race - 1' x 8' Gun. Weir, Factory Race - 1' x 12' Sup. Weir, Tanner Ditch - Tanner Race through 6' rectangular Weir
 June 22, Bay Creek diversion removed through a 3' wide Parshall Flume.

Date	Factory		City		Tanner		Total		Dry		Creek		
	Day	Year	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
	Day	Day	Geog. cfs	Date	cfs	Rate	Rate	Rate	Rate	Rate	Rate	Rate	
	1	.53	11.3	.12	1.9	.22	3.0	6.0	22.7	.50	9.1	.42	3.2
	2	.53	11.3	.14	2.3	.14	2.7	4.6	20.4	.56	8.6	.50	4.0
	3	.53	11.3	.14	2.3	.14	1.7	4.9	20.7	.56	8.2	.44	3.2
	4	.53	11.3	.20	4.0	.14	1.7	4.9	22.4	.56	8.2	.44	3.3
	5	.53	11.3	.18	3.4	.14	1.7	4.9	21.8	.56	8.2	.44	3.3
	6	.53	11.2	.20	4.0	.10	2.0	4.9	21.1	.56	8.2	.44	3.3
	7	.53	11.3	.18	3.4	.20	2.6	4.9	22.7	.56	8.2	.44	3.3
	8	.54	11.2	.18	3.4	.18	2.3	4.9	21.8	.56	8.2	.44	3.3
	9	.54	11.2	.18	3.4	.12	1.4	5.3	21.3	.53	8.6	.44	3.3
	10	.53	10.9	.18	3.4	.12	1.4	5.3	21.0	.58	8.6	.44	3.3
	11	.48	9.4	.20	4.0	.10	1.0	5.2	19.6	.58	8.6	.45	3.4
	12	.53	12.5	.20	4.0	.12	1.4	5.2	23.1	.56	8.5	.43	3.4
	13	.53	12.5	.20	4.0	.12	1.4	5.2	23.1	.56	8.6	.43	3.4
	14	.53	11.3	.18	3.4	.20	2.6	5.2	23.0	.56	8.6	.43	3.4
	15	.53	12.5	.18	3.4	.20	2.6	5.2	23.7	.56	8.5	.45	3.4
	16	.46	8.8	.15	3.4	.10	1.0	2.5	15.7	.45	8.9	.45	3.4
	17	.53	10.9	.19	3.6	.16	2.0	3.5	20.1	.50	8.9	.44	3.3
	18	.48	9.4	.18	3.4	.10	1.0	2.6	16.4	.45	8.9	.44	3.3
	19	.47	9.1	.18	3.4	.10	1.0	2.6	16.1	.45	5.9	.44	3.3
	20	.46	8.8	.18	3.4	.10	1.0	2.6	16.1	.45	5.9	.44	3.3
	21	.39	8.9	.14	2.3	.10	2.3	2.6	14.1	.45	5.9	.42	3.3
	22	.46	8.8		2.4		2.3	2.6	16.1		5.9	.44	3.3
	23	.46	8.8	.15	2.5	.18	2.3	3.3	16.9	.48	6.5	.43	3.2
	24	.54	11.2	.18	3.4	.16	2.0	3.7	23.3	.64	9.9	.43	3.2
	25	.46	8.8	.16	2.8	.14	1.7	5.4	18.6	.58	8.6	.43	3.2
	26	.45	8.5	.16	2.8	.14	1.7	4.8	17.8	.56	8.3	.45	3.4
	27	.45	8.8	.16	2.8	.14	1.7	4.8	17.2	.56	8.2	.45	3.4
	28	.44	8.2	.16	2.8	.12	1.4	4.3	17.7	.54	7.7	.45	3.4
	29	.45	8.5	.16	2.8	.14	1.7	4.3	17.3	.54	7.7	.45	3.4
	30	.46	8.8	.14	2.3	.16	2.0	4.3	17.4	.54	7.7	.45	3.4
	31	.46	8.8	.15	2.5	.15	1.8	4.3	17.4	.54	7.7	.45	3.4
Mean					3.1				19.6			3.35	
Total													
Ac. %													

REVENUE CREEK TRANSMISSION WATER DIVERSIONS, 1943

East Union, City Race, Factory Race and Tanner Ditch in cfs, East Union
 Canal - 1.5' m3' Suppressed Weir, City Race - 1'm3' Sup. Weir, Factory Race -
 1'm3' Sup. Weir, Tanner Ditch - Tanner Race through 6' rectangular Weir
 less Dry Creek diversion measured through a 3' wide Parshall Flume.

Date	East		Factory		City		Tanner		Total		Dry		
	Sept.	Union	Range	Range	Range	Range	Range	Range	Range	Cobbler	Range	Creek	
		cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	cfs	
1	.48	8.8	.16	2.5	.34	1.7		4.4	17.4	.54	7.7	.44	3.3
2	.46	9.4	.16	2.3	.34	1.7		2.8	16.7	.46	6.1	.44	3.3
3	.48	9.4	.16	2.8	.34	1.7		3.2	17.1	.48	6.5	.44	3.3
4	.48	9.4	.16	2.8	.34	1.7		3.2	17.1	.48	6.5	.44	3.3
5	.46	8.8	.16	2.8	.12	1.4		5.3	18.3	.58	8.6	.44	3.3
6	.46	8.8	.16	2.3	.16	2.0		3.6	16.7	.50	6.9	.44	3.3
7	.48	8.8	.16	2.8	.18	2.3		3.6	17.5	.50	6.9	.44	3.3
8	.48	9.4	.16	2.6	.18	2.3		2.0	16.5	.42	5.3	.44	3.3
9	.48	9.4	.16	2.6	.18	2.3		3.2	17.7	.48	6.5	.44	3.3
10	.48	8.8	.16	2.8	.14	1.7		3.6	16.9	.50	6.9	.44	3.3
11	.46	8.2	.16	2.6	.14	1.7		3.5	16.8	.50	6.9	.45	3.4
12	.38	6.6	.16	2.0	.08	.70		1.9	12.0	.42	5.3	.45	3.4
13	.44	8.2	.18	3.4	.08	.70		2.3	16.6	.44	5.7	.45	3.4
14	.48	9.4	.18	3.4	.10	1.0		3.9	17.7	.52	7.3	.45	3.4
15	.48	9.4	.20	4.0	.10	1.0		3.9	18.3	.52	7.3	.45	3.4
16	.46	8.8	.20	3.4	.10	1.0		3.5	16.7	.50	6.9	.45	3.4
17	.43	8.8	.18	3.4	.10	1.0		4.3	17.5	.54	7.7	.45	3.4
18	.50	10.0	.20	4.0	.14	1.7		5.1	20.8	.50	9.1	.50	4.0
19	.40	7.0	.14	2.3	.12	1.4		2.0	12.7	.42	5.3	.44	3.3
20	.45	6.6	.16	3.4	.12	1.4		4.0	17.6	.52	7.3	.44	3.3
21	.45	8.8	.16	2.8	.12	1.4		2.8	15.8	.46	6.1	.44	3.3
22	.45	8.8	.16	3.4	.12	1.4		4.0	17.6	.52	7.3	.44	3.3
23	.48	9.4	.18	3.4	.16	2.0		5.2	20.0	.58	8.6	.45	3.4
24	.50	10.0	.18	3.4	.26	2.0		4.3	19.7	.54	7.7	.45	3.4
25	.47	9.0	.18	3.4	.16	2.0		4.1	18.5	.53	7.5	.45	3.4
26	.46	8.8	.18	3.4	.16	2.0		3.5	17.7	.50	6.9	.45	3.4
27	.38	5.6	.14	2.3	.12	1.4		1.9	12.2	.40	5.0	.42	3.1
28	.38	6.6	.14	2.3	.12	1.4		1.9	12.2	.40	5.0	.42	3.1
29		6.6		2.3		1.4		1.9	12.2		5.0	.42	3.1
30	.42	7.7	.16	2.6	.10	1.0		2.6	14.1	.64	5.7	.42	3.1
Mean													
				3.0					16.55			3.3	
Total													
Ac.Ft.									993			200	

PROVO CITY DIVERSION WATER OCTOBER, 1961

East Union, City Race, Factory Race and Tanner Ditch in cfs, East Union Canal ~1.5'x8' Suspended Weir, City Race ~1'x8' Sep. Weir, Factory Race ~1'x12' Sep. Weir, Tanner Ditch ~Tanner Race through a 3' rectangular Weir Little Dry Creek diversion measured downstream a 3' wide Kayaball Flume.

Oct.	Date	Time	Stage	Flow	Race	Race	Tanner	Total	Provo		Combini.	Dry
									cfs	ft		
1	.50	10.0	.15	2.8	.12	1.4		5.1	19.3	.56	8.2	.42
2	.46	8.8	.13	3.6	.10	1.0		4.6	17.8	.54	7.7	.42
3	.36	6.2	.16	2.8	.10	1.0		1.9	11.9	.40	5.0	.42
4	.36	6.2	.14	2.3	.10	1.0		1.5	11.0	.38	4.6	.42
5	.38	6.6	.14	2.3	.12	1.4		2.2	13.5	.42	5.3	.42
6	.42	7.7	.16	2.8	.12	1.4		4.2	16.1	.52	7.3	.42
7	.40	7.1	.14	2.3	.10	1.0		5.1	15.5	.56	6.2	.42
8	.42	7.7	.14	2.3	.10	1.0		5.2	16.1	.56	8.2	.42
Mean												
Total				2.6					15.03			3.10
Ac. St.									240			50

Little Dry Creek Ditch Company under an agreement with Fort Field Ditch Company returned their stream to Provo River at 200 Mouth in Provo for addition and diversion by Fort Field Ditch Company below for a 78 hour 45 min. turn on dates and time listed.

April 18	11:38 A.M.	April 20	11:38 P.M.
May 11	11:38 A.M.	May 22	11:38 P.M.
June 3	11:38 A.M.	June 14	11:38 P.M.
July 7	11:38 P.M.	July 19	11:38 A.M.
Aug. 11	11:38 A.M.	Aug. 22	11:38 P.M.
Sept. 3	11:38 A.M.	Sept. 3	11:38 A.M.
Oct. 7	11:38 P.M.	Oct. 19	11:38 A.M.